

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 206 055 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.07.2003 Bulletin 2003/28

(51) Int Cl.7: **H04B 7/26**

(43) Date of publication A2:
15.05.2002 Bulletin 2002/20

(21) Application number: **01309448.7**

(22) Date of filing: **07.11.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

• Futakata, Toshiyuki
Yokosuka-shi, Kanagawa 239-0842 (JP)
• Moon, Sung Uk
Yokosuka-shi, Kanagawa 238-0031 (JP)

(30) Priority: **09.11.2000 JP 2000342551**

(71) Applicant: **NTT DoCoMo, Inc.**
Tokyo 100-6150 (JP)

(74) Representative:
Beresford, Keith Denis Lewis et al
BERESFORD & Co.
2-5 Warwick Court,
High Holborn
London WC1R 5DH (GB)

(72) Inventors:
• Yamada, Mayu
Yokohama-shi, Kanagawa 236-0031 (JP)

(54) **Time slot assignment method and apparatus in mobile communication system**

(57) A mobile communication system can limit interference from mobile stations under an adjacent base station to a minimum. In response to a time slot assignment request, a time slot management section (501) compares available time slots stored in an assignable

time slot database (503) with a priority table of the time slot assignment, which is stored in the priority database (502), and assigns the time slots in accordance with the compared result. After completing the assignment, it stores a table of the frame state indicating new available time slots into the assignable time slot database (503).

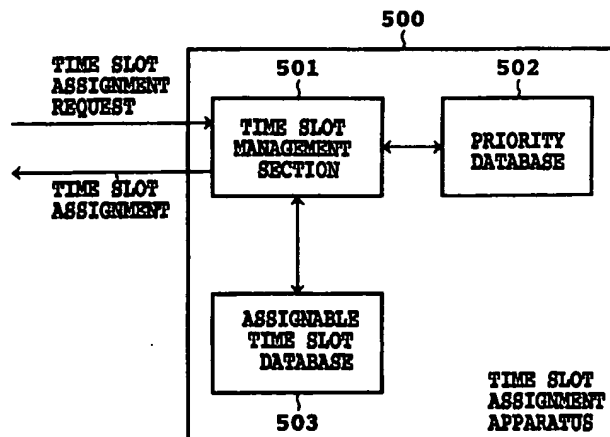


FIG.5



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 01 30 9448

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 00 01188 A (ERICSSON TELEFON AB L M) 6 January 2000 (2000-01-06) * abstract * * page 3, line 10 - page 4, line 25 * * page 5, line 25 - page 6, line 29 * * figures 4,5 * ---	1-6	H04B7/26
A	US 5 594 720 A (PAPADOPOULOS HARALABOS C ET AL) 14 January 1997 (1997-01-14) * page 2, line 32-56 * * column 5, line 11-35 * * column 5, line 53 - column 6, line 15 * * column 8, line 59 - column 9, line 27 * ---	1-6	
A	WO 99 63686 A (NOKIA TELECOMMUNICATIONS OY; HOLMA HARRI (FI); ALVESALO ANTERO (FI)) 9 December 1999 (1999-12-09) * abstract * * page 7, line 17 - page 9, line 5 * * page 13, line 13-30 * -----	1-6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H04B H04J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19 May 2003	Examiner Dejonghe, O
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 30 9448

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-05-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0001188	A	06-01-2000	US 6334057 B1	25-12-2001
			AU 4945699 A	17-01-2000
			CA 2336044 A1	06-01-2000
			CN 1316172 T	03-10-2001
			EP 1092333 A1	18-04-2001
			JP 2002519971 T	02-07-2002
			WO 0001188 A1	06-01-2000
US 5594720	A	14-01-1997	US 5420851 A	30-05-1995
			CA 2162753 A1	28-06-1996
			EP 0720405 A2	03-07-1996
			JP 8289360 A	01-11-1996
			CA 2135950 A1	25-05-1995
			EP 0654916 A2	24-05-1995
			FI 945507 A	25-05-1995
			JP 7203545 A	04-08-1995
			NO 944404 A	26-05-1995
			US 5602836 A	11-02-1997
WO 9963686	A	09-12-1999	WO 9963686 A1	09-12-1999
			AU 8108398 A	20-12-1999
			EP 1080551 A1	07-03-2001
			JP 2002517942 T	18-06-2002
			NO 20006011 A	28-11-2000